

Title (en)  
TEST PAPER AND POROUS MEMBRANE

Title (de)  
TESTPAPIER UND PORÖSE MEMBRAN

Title (fr)  
PAPIER DE TEST ET MEMBRANE POREUSE

Publication  
**EP 1607741 A4 20060705 (EN)**

Application  
**EP 04723021 A 20040324**

Priority  

- JP 2004004024 W 20040324
- JP 2003087812 A 20030327
- JP 2003379492 A 20031110

Abstract (en)  
[origin: EP1607741A1] A test paper of high measurement accuracy capable of shortening the time required for sample development (development time); and a porous membrane for use therein. In particular, a test paper comprising a porous membrane capable of separating an object that should be filtered out of a sample by filtration, the porous membrane carrying a reagent capable of reacting with a specified component of the sample to result in coloring, wherein the porous membrane comprises, a first layer having a surface on which the sample is supplied and a second layer having a surface at which sample percolation and measuring are effected, the first layer composed of large pore portions, the surface of the first layer consisting of a smooth surface having open pore portions, the second layer composed of minute pore portions the surface of the second layer consisting of a surface having open pore portions. Between the first layer and the second layer, there is a boundary extending from the surface of the first layer to 1/5 to 1/2 of the thickness of the porous membrane. The porous membrane has a thickness of 50 to 200  $\mu\text{m}$  and a porosity of 60 to 95%, and the average pore diameter of the surface of the first layer is in the range of 0.5 to 10  $\mu\text{m}$  while the average pore diameter of the surface of the second layer is in the range of 0.1 to 3.0  $\mu\text{m}$

IPC 8 full level  
**G01N 33/52** (2006.01); **B01D 69/02** (2006.01); **B32B 5/18** (2006.01); **G01N 33/49** (2006.01); **G01N 33/72** (2006.01)

CPC (source: EP US)  
**G01N 33/525** (2013.01 - EP US); **Y10T 436/255** (2015.01 - EP US)

Citation (search report)  

- [A] WO 9825758 A1 19980618 - MEMTEC AMERICA CORP [US]
- [A] US 5968836 A 19991019 - MATZINGER DAVID P [US], et al
- See references of WO 2004086037A1

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